



National  
Aeronautics and  
Space  
Administration

Patent Application

**Request for Filing a Continuation, Divisional or  
Continuation-in-Part Application Under 37 CFR 1.53(b)**

NASA Case No. KSC-12246-2

Class \_\_\_\_\_ Subclass \_\_\_\_\_

Prior Application:

Examiner Katherine Mitchell Art Unit 3677

THE COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, DC 20231

Sir:

This is a request for filing a ☒ continuation, ☐ continuation-in-part, or ☐ divisional application under 37 CFR 1.53(b) of  
prior application:

Serial No.: 09/972,296 Confirmation No.: \_\_\_\_\_ Filed: 10/02/2001

Entitled: Zero-Valent Metal Emulsion for Reductive Dehalogenation of DNAPLs

by the following named inventor(s):

|                         |  |                                     |                                     |
|-------------------------|--|-------------------------------------|-------------------------------------|
| FULL NAME OF INVENTOR   | FAMILY NAME<br>REINHART                        | FIRST GIVEN NAME<br>DEBRA           | SECOND GIVEN NAME<br>R.             |
| RESIDENCE & CITIZENSHIP | CITY<br>MAITLAND                               | STATE OR FOREIGN COUNTRY<br>FLORIDA | COUNTRY OF CITIZENSHIP<br>U.S.A.    |
| MAILING ADDRESS         | STREET NUMBER AND NAME<br>170 SHELL PT. W.     | CITY<br>MAITLAND, FLORIDA           | STATE AND ZIP CODE/COUNTRY<br>32751 |
| FULL NAME OF INVENTOR   | FAMILY NAME<br>CLAUSEN                         | FIRST GIVEN NAME<br>CHRISTIAN       | SECOND GIVEN NAME                   |
| RESIDENCE & CITIZENSHIP | CITY<br>CHULUOTA                               | STATE OR FOREIGN COUNTRY<br>FLORIDA | COUNTRY OF CITIZENSHIP<br>U.S.A.    |
| MAILING ADDRESS         | STREET NUMBER AND NAME<br>1445 BOBWHITE TRAIL  | CITY<br>CHULUOTA, FLORIDA           | STATE AND ZIP CODE/COUNTRY<br>32766 |
| FULL NAME OF INVENTOR   | FAMILY NAME<br>GEIGER                          | FIRST GIVEN NAME<br>CHERIE          | SECOND GIVEN NAME<br>L.             |
| RESIDENCE & CITIZENSHIP | CITY<br>GENEVA                                 | STATE OR FOREIGN COUNTRY<br>FLORIDA | COUNTRY OF CITIZENSHIP<br>U.S.A.    |
| MAILING ADDRESS         | STREET NUMBER AND NAME<br>3655 E. OSCEOLA ROAD | CITY<br>GENEVA, FLORIDA             | STATE AND ZIP CODE/COUNTRY<br>32732 |

- ☒ 1. Enclosed is a copy of the prior application, including the specifications, claims, drawings and declaration as originally filed.
- ☒ 2. Cancel in this application original claims 2-26  
of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
- ☒ 3. A preliminary amendment is enclosed. (Claims added by this amendment have been properly numbered consecutively beginning with the number next following the highest numbered original claim in prior application.)



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by the following named inventor(s):

|                         |  |                                     |  |
|-------------------------|--|-------------------------------------|--|
| FULL NAME OF INVENTOR   | FAMILY NAME<br>QUINN                           | FIRST GIVEN NAME<br>JACQUELINE      | SECOND GIVEN NAME                            |
| RESIDENCE & CITIZENSHIP | CITY<br>TITUSVILLE                             | STATE OR FOREIGN COUNTRY<br>FLORIDA | COUNTRY OF CITIZENSHIP<br>U.S.A.             |
| MAILING ADDRESS         | STREET NUMBER AND NAME<br>1278 FOX COURT       | CITY<br>TITUSVILLE                  | STATE AND ZIP CODE/COUNTRY<br>FLORIDA, 32780 |
| FULL NAME OF INVENTOR   | FAMILY NAME<br>BROOKS                          | FIRST GIVEN NAME<br>KATHLEEN        | SECOND GIVEN NAME                            |
| RESIDENCE & CITIZENSHIP | CITY<br>ORLANDO                                | STATE OR FOREIGN COUNTRY<br>FLORIDA | COUNTRY OF CITIZENSHIP<br>U.S.A.             |
| MAILING ADDRESS         | STREET NUMBER AND NAME<br>2563 LOGANDALE DRIVE | CITY<br>ORLANDO                     | STATE AND ZIP CODE/COUNTRY<br>FLORIDA 32817  |
| FULL NAME OF INVENTOR   | FAMILY NAME                                    | FIRST GIVEN NAME                    | SECOND GIVEN NAME                            |
| RESIDENCE & CITIZENSHIP | CITY   | STATE OR FOREIGN COUNTRY            | COUNTRY OF CITIZENSHIP                       |
| MAILING ADDRESS         | STREET NUMBER AND NAME                         | CITY                                | STATE AND ZIP CODE/COUNTRY                   |

- ☒ 1. Enclosed is a copy of the prior application, including the specifications, claims, drawings and declaration as originally filed.
- ☒ 2. Cancel in this application original claims 2-26  
of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
- ☒ 3. A preliminary amendment is enclosed. (Claims added by this amendment have been properly numbered consecutively beginning with the number next following the highest numbered original claim in prior application.)

The filing fee is calculated on the basis of claims existing in the prior application as amended at 2, above.

| FOR<br>(1)                                      | CLAIMS<br>NUMBER |              | RATE<br>(4) | CALCULATIONS<br>(5) |
|---|------------------|--------------|-------------|---------------------|
|   | PAID FOR<br>(2)  | EXTRA<br>(3) |             |                     |
| TOTAL CLAIMS                                    | 20               | 0            | \$18.00     | \$0.00              |
| INDEPENDENT CLAIMS                              | 3                | 0            | \$86.00     | \$0.00              |
| MULTIPLE DEPENDENT CLAIMS (if applicable) ----- |                  |              |             |                     |
| BASIC FEE -----                                 |                  |              |             | \$770.00            |
| TOTAL   |                  |              |             | \$770.00            |

☒ 4. The Commissioner is hereby authorized to charge any fees which may be required to effect only the filing of this application under 37 CFR 1.16 or credit any overpayment to Deposit Account No. 14-0116

☐ 5. A new declaration is included (required for continuation or divisional application adding new inventor, and in continuation-in-part applications).

☐ 6. Amend the specification by inserting before the first line the following sentence:

"This application is a ☐ division, ☐ continuation-in-part, or

☒ continuation of application Serial No. 09/972,296, filed 10/02/2001."

☐ 7. New drawings are enclosed.

☒ 8. Nonpublication request and certification is enclosed (PTO/SB/35 or equivalent).

☒ 9. The prior application is assigned of record to:

The United States of America as represented by the Administrator of the National Aeronautics & Space Administration

☒ 10. The Power of Attorney in the prior application is to:

☐ a. Registered practitioners at Customer No.: \_\_\_\_\_

☒ b. Registered practitioners listed below (Name and registration number):

Randall M. Heald Reg. No. 28,561

Gary G. Borda Reg. No. 35,455

John G. Mannix Reg. No. 27,254

Harry Lupuloff Reg. No. 31,117

☐ 11. A Power of Attorney is enclosed.

☒ 12. Also enclosed: IDS and postcard

Address all future communications to:

☐ a. Customer No.: \_\_\_\_\_

☒ b. Correspondence Address listed below (Name, address and telephone number).

Randall M. Heald, Patent Counsel Telephone Number: (321) 867-6225

NASA, John F. Kennedy Space Center, Mail Code: CC-A, Kennedy Space Center, FL 32899

Oct 31, 2003

(Date)

Randall Heald

(Signature - Attorney of Record) (Registration Number)

**NONPUBLICATION REQUEST  
UNDER  
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor

Debra R. Reinhart

Title

Zero-Valent Metal Emulsion for  
Reductive Dehalogenation of DNAPLs

Attorney Docket Number

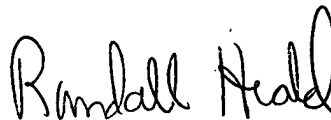
KSC-12246-2

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

October 31, 2003

Date



Signature

321-867-7214

Telephone number

RANDALL M. HEALD, REG. NO. 28, 561

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

This collection of information is required by 37 CFR 1.213(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

NASA Case No. KSC-12246-2

Patent Application

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Reinhart, et al )  
)  
)  
Serial No.: Unknown )  
)  
Filed: Herewith )  
)  
Title: Zero-Valent Metal Emulsion for )  
Reductive Dehalogenation of DNAPLs)

LETTER

Mail Stop Patent Applications  
Attn: Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The enclosed application is being filed in accordance with 37 CFR 1.53(b) in order to obtain a filing date of **October 31, 2003**. The application is being sent by EXPRESS MAIL "Post Office to Addressee" under Certificate

Respectfully submitted,



Randall M. Heald, Reg. No. 28,561  
Patent Counsel

Mailing Address:

Patent Counsel  
Office of Chief Counsel  
NASA, John F. Kennedy Space Center  
Mail Code: CC-A  
Kennedy Space Center, Florida 32899  
Telephone (407) 867-7214

Certificate of Mailing

I hereby certify that the attached application "Zero-Valent Metal Emulsion for Reductive Dehalogenation of DNAPLs" is being deposited with the United States Postal Service on **October 30, 2003**, as Express Mail "Post Office to Addressee" under Certificate No. EU942717613US in an envelope addressed to: Mail Stop Patent Applications, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Carol Anne Dunn/Paralegal Specialist